

### **understanding scientific reasoning pdf**

Jeffrey Bennett specializes in mathematics and science education. He has taught at every level from pre-school through graduate school, including more than 50 college courses in mathematics, physics, astronomy, and education.

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Second, a focus on practices (in the plural) avoids the mistaken impression that there is one distinctive approach common to all science—a single “scientific method” or that uncertainty is a universal attribute of science.

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The scientific method is the process by which science is carried out. As in other areas of inquiry, science (through the scientific method) can build on previous knowledge and develop a more sophisticated understanding of its topics of study over time.

### **Scientific method - Wikipedia**

Inductive reasoning is a method of reasoning in which the premises are viewed as supplying some evidence for the truth of the conclusion (in contrast to deductive reasoning and abductive reasoning).

### **Inductive reasoning - Wikipedia**

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### **Theories of Cognitive Development - CMU**

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3 Carl Hempel, "Two Models of Scientific Explanation" Carl Gustav Hempel 's (1905- 1997) classic account of explanation is widely known as the "covering-law model.

### **Carl Hempel, Two Models of Scientific Explanation**

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1 Piaget™s Theory ∅ The first ∅ cognitive ∅ theory, developed by Jean Piaget beginning about 1920. ∅ Piaget observed and described children at

## **Piaget's Theory - Colorado - University of Colorado Boulder**

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